No.



200000021

<u>THIE UNITED STAMES OF AMIERICA</u>

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Mission Ranches

Thereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROPAGATION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Seacrest'

In Testimony Alecters, I have hereunto set my hand and caused the seal of the Hant Antisty Frotestion Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and five.

Allost:

Dem Jul Commissioner

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

of Agriculture

AGRICULTURAL MARKETI SCIENCE AND TECHNOLOGY DIVISION . PLAN	INCULTURE	The following states	nents are made	RM APPROVED - OMB NO. 0581-0 in accordance with the Privacy Acc
	IT VARIETY PROTECTION OFFICE	19/4 IS U.S.C. 5526) and the Paper	work Reduction Act (PRA) of 1995.
APPLICATION FOR PLANT VARIETY (Instructions and information collection)	burden statement on rever	HAIC CONTINCATE IS TO DO IS	8000 (7 U.S.C	letermine if a plant variety protect 2421). Information is held confident 1261. RHN 130/0
NAME OF APPLICANT(S) faz it is to appear on the Cartifica	re)	2. TEMPORARY DESIGN EXPERIMENTAL NUM		Seacrest'
Mission Ranches		Green Oak	-	Oroverde
A. ADDRESS (Street and No., or R.F.D. No., City, State, and J.	ZIP Code, and Country)	6. TELEPHONE linckude	area codel 🥎 🥤	FOR OFFICIAL USE ONLY
100 Broadway King City, CA 93930	USA	(831) 385-	1263 2	0 0 0 0 0 2 1
,			3340	Oct 25, 1999
genus and species name	8. FAMILY N	VME (Botanical)		FILING AND EXAMINATION FEE:
Lactuca sativa	comp	ositae];	
CROP KIND NAME (Common name)				DATE
Lettuce	en e			Oct 25, 1999
IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FOR PARTNERShip	RM OF ORGANIZATION (corporation	t, partnership, association, etc.) (Comm	on name)	CERTIFICATION FEE:
IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORA	ATION	DATE
NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APP	ICATION AND RECEIVE ALL PAPERS	14	. TELEPHONE finckide area code!
Dean Gregg				
100 Broadway			(831) 809-3959
King City, CA 93930			ľ	831) 726-2961
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUB	MITTED (Follow instructions or			
e. 🔯 Exhibit A. Origin and Breeding History of the Variety	A to a series to a series of 16A	# SEL		
b. X Exhibit B. Statement of Distinctness				
c. 🔀 Exhibit C. Objective Description of the Veriety				
d. Buthibit D. Additional Description of the Variety (Opt.				
d. Exhibit D. Additional Description of the Variety fOption S. Exhibit E. Statement of the Basis of the Applicant's	Ownership			
d. Exhibit D. Additional Description of the Variety (Opt. E. Stribit E. Statement of the Basis of the Applicant's 1. Voucher Sample (2,500 viable untreated seeds or, for	Ownership or tuber propagated varieties verifica	tion that tissue culture will be deposited	l and maintained in	an approved public repository)
d. Exhibit D. Additional Description of the Variety (Option Control of the Applicant's Section of the Basis of the Applicant Section of the Basis of the Applicant Section of the Section	Ownership or tuber propagated varieties verifica to "Treasurer of the United States" ; ETY BE SOLO BY VARIETY NAME O M NO ##	Meil to PVPO) INLY, AS A CLASS OF CERTIFIED SEEL ("n.y." go to item 20)		
d. Exhibit D. Additional Description of the Variety (Option Co. M. Exhibit E. Statement of the Basis of the Applicant's 1. W. Voucher Sample (2,500 viable untreated seeds or, for the S	Ownership or tuber propagated varieties verifica to "Treasurer of the United States" ; ETY BE SOLO BY VARIETY NAME O M NO ##	Mail to PVPO) NLY, AS A CLASS OF CERTIFIED SEEL 1 "n.s." go to item 20)	7 (See Section 63	
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EXHIBIT A

RAD 1/30/01

Scacrest

Oreverde is a green oakleaf type of lettuce developed exclusively for the "baby leaf" salad mix market. It is the result of a cross made in 1996, between Bambino and El Dorado.

August 1996 -

F₁ seed collected and planted; seedlings screened for resistance to

downy mildew. Resistant plants saved.

April 1997 -

First backcross (BC₁) seed collected and planted; seedlings

screened for downy mildew resistance. Resistant plants saved.

September 1997 -

Selfed (BC₁S₁) seed collected; seed was screened for mildew

resistance. Resistant seedlings were selected for oakleaf shape.

May 1998 -

BC₁S₂, seed indexed for resistance to downy mildew; only

homozygous resistant lines were continued. These lines were indexed for leaf shape. Preferred lines were massed together.

September 1998 -

BC₁S₃, mass selection for leaf type.

April 1999 -

BC₁S₄

September 1999 -

Observation of the BC₁S₅ generation

Breeding methods used were a combination of backcrossing and mass selection. Observation of both the S₄ and S₅ generations showed them to be uniform and stable. No variants were observed.

200000021

Lettuce application No. 200000021, 'Seacrest'

Exhibit B

Seacrest carries lettuce downy mildew resistant gene, Dm18. Bambino does not carry downy mildew resistant gene, Dm18.

RAPIOL

EXHIBIT B

Seacrest

'Seacrest'

Oroverde is most similar to Bambino, however, Oroverde is resistant to lettuce downy mildew Pathotypes I, IIA, IIB, III, IV and V. Bambino is not resistant to these pathotypes.

The color of Oroverde is 146A on the Royal Horticultural Society Colour Chart.

ТІВІНХЭ

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION OBJECTIVE DESCRIPTION OF VARIETY LETTUCE Lactuca sativa

HAME OF APPLICANT (S)			**************************************	
Mission Ranches			FOR OFF	ICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. N	o., City, State, and ZIP Cod	(e)	700	000001
100 Broadway			VARIETY NAME	DUUUXI
King City, CA 939	930	•	Seaf	سل برص
			EXPERIMENTAL D	ESIGNATION
·		·		
Place numbers in the boxes for the char spaced plants. Royal Horticultural Soci	acters which best describe t ety or any recognized color	his variety. Measured data show standard may be used to deten	uld be the mean of an appropriat	te number (at least 10) of
The location of the test area is:	fornia	Color System I		
1. PLANT TYPE: See list of suggi	ested check varieties page 4.	<u> </u>	or createurar 500	clety Colour
01=Cutting/Les 02=Butterhead 03=Bibb 04=Cos or Rom	of 05-Great Lak 06-Vanguard 07-Imperial 6	at Group 09=Stem Group 10=Latin	•	Chart
2. SEED: COLOR 1=White (Silver Gray	LIGHT D	PRMANCY	EAT DORMANCY	
2 2"Black (Gray Brown 3=Brown (Amber)	1 Light R 2 Light N		≈Susceptible ≈Not Susceptible	
. COTYLEDON TO FOURTH LEAF S	TAGE: NOTE: Provide a	EOLOG CHOSCOCACH OF CHOCKE	y of the fourth lest from 20 day	Old seedling
3 SHAPE OF COTYLEDO	NS: 1-Broad	Manual Company	patulate	ore suspinity
	•			
6 SHAPE OF FOURTH LE	AF:		\wedge	
				3
1	2 3	4	5 6	
2 4 LENGTH/WIDTH INDEX	OF FOURTH LEAF: L/W	× 10		
7 APICAL MARGIN:	1=Entire			
7 BASAL MARGIN:	2=Creanate/Griawed 3=Finely Dentate	4=Moderately Dentate 5=Coarsely Dentate 6=Incised	7-Lobed 8-OTHER (apecify)	
1 UNDULATION:	1-Flat	2=Slight	3=Medium	4=Marked
GREEN COLOR:	1=Yellow Green 2=Light Green	3=Medium Green 4=Dark Green	5=Blue Green 6=Silver Green	7=Gray Green
1 DISTRIBUTION:	1-Absent 2-Margin Only	3=Spotted 4=Throughout	5-OTHER (specify)	
ONCENTRATION:	1-Light	2=Moderate .	3=Intense	
BOLLING:	1=Absent	2-Present		
1 CUPPING:	1=Uncupped	2=Slight	3=Markedly	
1 REFLEXING	1-None	2=Apical Margin	3=Lateral Margins	

4			LEAVES (observe harvest-mat) rovide color photo of hervest-m.	ure outer leaves); ature leaves which accurately shows color	and mergin characteristics.	
			MARGIN: INCISION DEPTH:	1=Absent/Shallow (Dark Green Boston		
		3	Ideepest penetration of t	he margin) 1=Entire (Dark Green Boston)	· · · · · · · · · · · · · · · · · · ·	3*Deep (Great Lakes 659)
		3	INDENTATION: (finest divisions of the margin	n) 2=Shallowly Dentate (Great Lakes 65)	3-Deeply Dentate (Great Lakes 659) 4-Crenate (Vanguard)	5-OTHER (specify)
		2	UNDULATION OF THE APICAL MARGIN:	t=Absent/Slight (Dark Green Boston)	2=Moderate (Vanguard)	3#Strong (Great Lakes 659)
		3	GREEN COLOR:	1=Very Light Green (Bibb) 2=Light Green (Minetto)	3=Medium Green (Great Lakes) 4=Dark Green (Vanguard)	5=Very Dark Green 6-OTHER
	•	سنم	ANTHOCYANIN (grown at o	or below 10 C):		
		1	DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston)	3=Spotted (Calif, Cream Butter) 4=Throughout (Prize Héad)	5-OTHER (specify)
			CONCENTRATION:	1=Light (Iceberg)	2=Moderate (Prize Head)	3=Intense (Ruby)
		2	SIZE:	1=Small	2-Medium	3=Large
		2	GLOSSINESS:	1=Duli (Vanguard)	2=Moderate (Salinas)	3=Glossy (Great Lakes)
		1	BLISTERING:	1*Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
٠		3	LEAF THICKNESS:	1=Thin	2~Intermediate	3=Thick
			TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	
5.	PLAN	YT fat	market stage. Choose a compar	ison variety appropriate for this type.):		
	5	2	SPREAD OF FRAME LEAVES cm This Variety	4 3 cm Bambino	4 - 1 - 4 - 1 - 1 - 1 - 1 - 1	
		T	HEAD DIAMETER (market tr	Immed with single cap leaf):	(specify comparison variet	21
	5	12)	em This Variety	4 3 cm Bambino		y)
:		5	HEAD SHAPE:	1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
		2		1~Small	2=Medium	3=Large
	7	8 J	HEAD COUNT PER CARTON			
9	2	1	HEAD WEIGHT: g This Variety	857, Bambino		"
	[HEAD FIRMNESS:	l=Loose ?=Moderate	3=Firm 4=Very Firm	
6.	BUTT	(botto	m of market-trimmed head);			
		~ I"		-Slightly Concave	2=Flat	3=Rounded
				=Flattened (Salinas)	2=Moderately Raised	3=Prominently Raised (Great Lakes 659)
/, C	ORE (ratem o	of market-trimmed head):			
	3	<u>9] ˈ</u>	nm Diameter at base of head			
1	<u> </u>	L	Ratio of head diameter/core diam			
	7 7		Core height from base of head to non. This Variety	8 2 mm Bambino		
B. B	OLTI		ive First Water Date May 10) NOTE: First Water Date is tr	(specify comparison variety) ne date seed first receives adequate mais	ture
	····	A1	ironhar of days donin Etrop Mr.	to garminate. This can and of	ten does equal the planting date.	
	5		his Variety	Date to seed stalk emergence faummer co	onditions): (specify comparison variety)	
		┙_	OETING CLASS: 2*		A-Medium 5 I-Rapid	∼Very Rapid
<u>J</u>	3	8]	eight of mature seed stalk: n. This Variety	140cm Bambino	(specify comparison variety)	
FORM	MICA	70.	the state of the s			

Spread of Bolter Plant (at w	ointy: 5 3 cm Ba	imbino (specify cor	200000021
BOLTER LEAVES:	1-Straight	2*Curved	
2 MARGIN:	1=Entire	2=Dentate	
2 COLOR:	1-Light Green	2≈Medium Green	3=Dark Green
BOLTER HABIT: TERMINAL INFLORESCENCE:	1-Absent	2=Present	
2 LATERAL SHOOTS:	1=Absent	2=Present	
2 BASAL SIDE SHOOTS	: 1=Absent	2=Present	
9. MATURITY (earliness of harvest-mature h NOTE: Complete this section for at les	•		
SEASON Applic. 1/ #of day	S Check 1/ #of days	CHECK V	ARIETY 3/
Spring 1 1 0	1 1 0	Bambino	
Summer			
Fali			
Winter			
Give planting date(s), and location(s):			· · · · · · · · · · · · · · · · · · ·
Spring January 6, 19	99 Aroma	s, CA	
Summer			· · · · · · · · · · · · · · · · · · ·
Fall			
Winter		· · · · · · · · · · · · · · · · · · ·	
1/ First water date to hervest.	3/Fill in check vari	ety name on the appropriate line.	
10. ADAPTATION:			
PRIMARY REGIONS OF ADA	APTION (tested and prov	en adapted): (0=Not tested 1=	Not Adapted 2=Adapted)
2 Southwest (Calif., Ariz. desert)	2 West Coas	Northeast	
0 Northcentral	O Southeast	OTHER	
SEASON: 2 Spring (area West C	oast	2 Fall larga West Co.	ast
2 Summer (area West C		West Co	•
	3=Not tested	1=Not Adapted	2 • Adapted
	-Mineral	2=Organic	3=Both
SORM IS 470 x			
FORM LS-470-1 (9-86)			Page 3 of

11. DISEASES AND STRESS REACTIONS TO Not tested; 1-Susceptible; 2-16	ntermediate: 3=Resignat: 4=Highly resistant: 5=Tolerant):
<u>viaus</u>	FUNGAL/BACTERIALO 0 0 2 1
O Big Vein	1 () I CRICKA LIGHT LIGHT LIGHT LIGHT
1 Lettuce Mosaic	3 Downy Mildew (Reces I, IIA, IIB, III, IV, V
O Cucumber Mossic	O Powdery Mildew
O Broad Bean Wilt	O Scierotinia Rot
O Turnip Mossic	O Bacterial Soft Rot (Pseudomonas spp. & others)
O Beet Western Yellows	O Botrytis (Gray Mold)
O Lett. Infectious Yellows	ОТНЕЯ
Other Virus	
INSECTS	PHYSIOLOGICAL/STRESS
Cabbage Loopers	O Tipbum O Salt
O Root Aphids	5 Heat 0 Brown Rib (Rib Discoloration, Rib Blight)
1 Green Peach Aphid	O Drought OTHER
Other Insect	5 Cold
POST HARVES	τ.
O Plak Rib	O Internal Rib Necrosia (Blackheart, Gray Rib, Gray Streak)
O Russet Spotting	0 Brown Stain
O Rusty Brown Discolaration	
13 PLONIFICATION OF FLECTROSPOSTIONA OF THE	
12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:	
13. COMMENTS:	
	•
	_
SUGGESTED CHECK	VARIE HES
TYPE	CHECK VARIETY
1) CUTTING/LEAF 2) BUTTERHEAD	SALAD BOWL DARK GREEN BOSTON
3) BIBB 41 COS, OR ROMAINE	BIBB PARRIS ISLAND
5) GREAT LAKES GROUP 6) VANGUARD GROUP	GREAT LAKES 659-700 VANGUARD
7) IMPERIAL GROUP 8) EASTERN GROUP	VIVA ITHACA
9) STEM 10) LATIN	CELTUCE MATCHLESS

EXHIBIT C, Item 2

Fourth leaf, 20 day old seedling



EXHIBIT C, Item 4

Harvest mature leaf



EXHIBIT B C (supplement)



BAMBINO

SEACREST

REPRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE. AGRICULTURAL MAINTENAGE SERVICE	The following statements are med 1974 (5 U.S.C. 552s) and the Pap	FORM APPROVED - OMB NO. O he in accordance with the Pilve www.k.feduction.Act (PRA) of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to cartificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.)	determine if a plant variety
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME Seacrest
Mission Ranches	Green Oak	Oroverde RAD 1/3
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	
100 Broadway King City, CA 93930	(831) 385-1263	6. FAX Enclude area codel (831) 385–334(
	7. PVPO NUMBER 200	9
 Does the applicant own all rights to the variety? Mark an "X" in appropriate 	e block. If no, please explain.	X YES NO
	unswer the lobowing:	X YES NO
a. If original rights to variety were owned by individual(s), is (are YES NO If no, give name of country b. If original rights to variety were owned by a company, is the o	the original owner(s) a U.S. national owner(s) a U.S. based comparinginal owner(s) a U.S. based comparinginal owner(s) a U.S. based comparing	1(a)?
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